

2125

DATE MAILED: 09/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Summary	10/796,646	SHIH ET AL.	
	Examiner	Art Unit	
	Zoila E. Cabrera	2125	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence addres	'S
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	I. sely filed the mailing date of this commun (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 22 Ju	uno 2006		
	ane 2000. action is non-final.		
		secution as to the mo	rito io
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.			
	-x parte quayre, 1500 0.0. 11, 40	00.0.210.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-24</u> is/are pending in the application.			
4a) Of the above claim(s) is/are withdrawn from consideration.			
5)⊠ Claim(s) <u>8-14</u> is/are allowed.			
6)⊠ Claim(s) <u>1-3 and 15-17</u> is/are rejected.			
7)⊠ Claim(s) <u>4-7 and 18-24</u> is/are objected to.			
8) Claim(s) are subject to restriction and/o	r election requirement.		
Application Papers			
9) The specification is objected to by the Examine	or.		
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Ex			
Priority under 35 U.S.C. § 119	Carrier and diddinod Cinioc	7.0.0.1.0.1.1.1.1.0.1.	02 .
<u> </u>			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
a) All b) Some * c) None of:			
1. Certified copies of the priority documents have been received.			
2. Certified copies of the priority documents have been received in Application No			
3. Copies of the certified copies of the priority documents have been received in this National Stage			
application from the International Bureau	• • • • • • • • • • • • • • • • • • • •		
* See the attached detailed Office action for a list	of the certified copies not receive	d.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summary		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal P		
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:	асель Аррисацоп	
			

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DETAILED ACTION

Final Rejection

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-24 are pending.

The rejection with respect to claims 1-3 and 15-17 is maintained.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3 and 15-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Nakashima (US 2003/0125832 A1).

Nakashima discloses:

1. A method for scheduling a monitor job for a tool in a semiconductor manufacturing environment, the method comprising: receiving the monitor job ([0091]); monitoring a status of the tool to determine when a predefined event occurs ([0093], i.e., event such as completion of processing); identifying a position in a buffer in which to

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place the monitor job in response to the predefined event occurring ([0095], i.e. in response to the completion of processing event the next step of the current process or next stocker is determined), wherein placing the monitor job in the identified position will cause the monitor job to be executed at a correct time (Fig. 1, i.e., G LOT (SPECIAL); Page 7, [0099], i.e. when the special purpose lot is a lot for monitoring dust, it is unloaded from the final stocker and is recovered for carrying it to a dust measuring instrument to be executed); and placing the monitor job in the identified position in the buffer (Figs. 1-2).

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- 2. The method of claim 1 wherein the buffer includes a plurality of production jobs, and wherein the method further comprises: determining whether at least some of the plurality of production jobs need to be rearranged in order to place the monitor job into the identified position; and rearranging at least some of the plurality of production jobs (Fig. 1, Lot Path Table 23; [0108], a step changing unit 284 is changed or rearranged).
- 3. The method of claim 1 further comprising receiving a plurality of production jobs while monitoring the status of the tool (Fig. 1; [0093], i.e., a timer is started simultaneously with the registration of the lot).

As for claims 15-16, the same citations applied to claims 1-2 above apply as well for these claims.

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nakashima (US 2003/0125832 A1) in view of Rice et al. (US 2004/0193300 A1).

Nakashima discloses the limitations of claims 1 and 15 above but fails to specifically disclose a manufacturing execution system adapted for interacting with at least one of the manufacturing tool and the scheduler. However, Rice discloses a MES interacting with a scheduler and tools ([0045]). Therefore, it would have been obvious to a person of the ordinary skill in the art at the time the invention was made to combine the teachings of Nakashima with the system of Rice because it would provide an automatic handling of manufacturing jobs in a semiconductor factory and thereby decreasing the cost of the products.

Allowable Subject Matter

4. Claims 8-14 are allowed.

Claims 4-7 and 18-24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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The following is a statement of reasons for the indication of allowable subject matter: The closest prior art of record does not disclose or suggest, alone or in combination, the step of:

Regarding independent claim 8, identifying which of the portions are required for processing a job upon receiving a processing request for the job; updating the new job count for each portion that is required; comparing the threshold value for each portion with the summation value; and accepting the job for processing only if the summation value meets the threshold value, in combination with the other elements and features of the claimed invention.

Response to Arguments

5. Applicant's arguments filed June 22, 2006 have been fully considered but they are not persuasive. Applicant contends that Nakashima fails to disclose "monitoring a status of the tool". Examiner disagrees because Nakashima discloses that the host computer uses a timer to automatically generate an event such as completion of processing after the receiving of the special purpose lot at the stocker ([0093]), please note that the timer is part of monitoring a status of the tool because after the predetermined time or in response to the completion of processing event the next step of the current process or next stocker is determined ([0093];[0095]).

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning communication or earlier communication from the

examiner should be directed to Zoila Cabrera, whose telephone number is (571) 272-

3738. The examiner can normally be reached on M-F from 8:00 a.m. to 5:30 p.m. EST

(every other Friday).

If attempts to reach the examiner by phone fail, the examiner's supervisor, Leo

Picard, can be reached on (571) 272-3749. Additionally, the fax phones for Art Unit

2125 are (571) 273-8300. Any inquiry of a general nature or relating to the status of this

application should be directed to the group receptionist at (703) 305-9600.

Zoila Cabrera

Primary Examiner

9/4/06

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